

Job description

Plumbers lay out, test and maintain pipes, fixtures, metal roofing, fittings, gas meters and regulators.

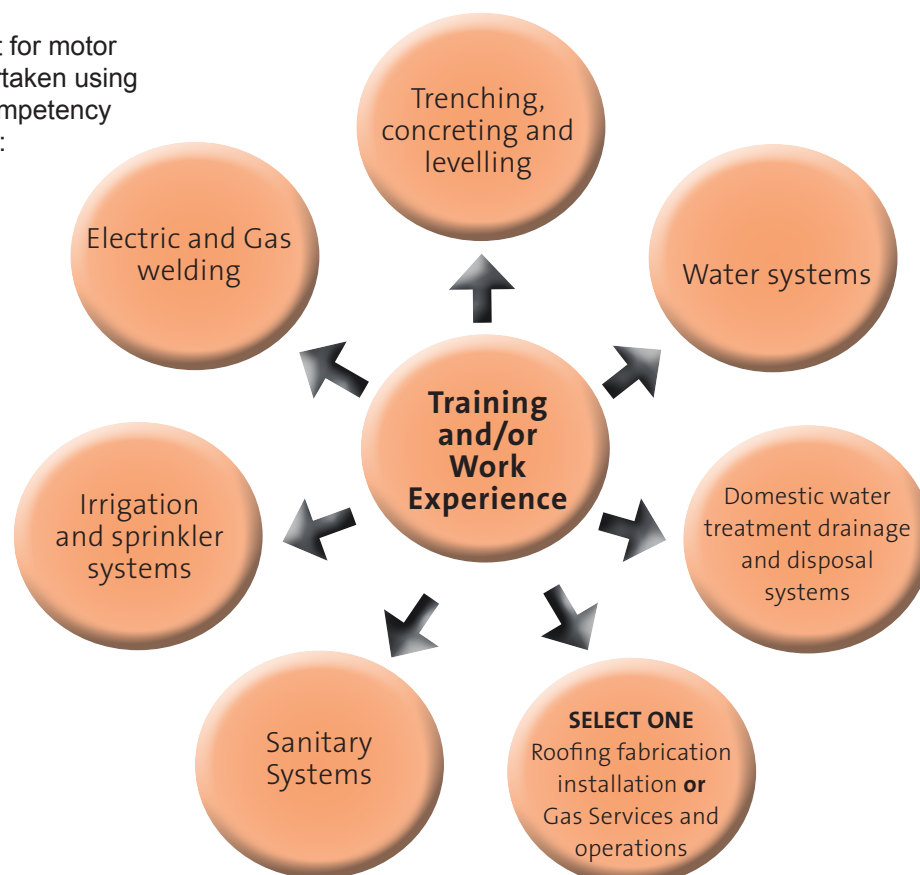
A plumber may undertake the following tasks:

- prepare and/or study plans and specifications to work out the layout of plumbing systems and materials needed
- find and mark position for connections, then cut holes through walls and floors to accommodate pipes, measure pipes and mark cutting or bending lines
- cut, thread and bend pipes, assemble and install piping, valves and fittings, join pipe sections and secure pipes
- test lines as required by local plumbing regulations
- install equipment such as boilers, pumps, heating and cooling systems, gas appliances, water tanks, water heaters, solar water heating systems, fixtures such as toilets, wash basins and industrial processing units
- maintain and repair plumbing systems.

Competency Standards

The standards used to assess this occupation are drawn from units of competency within the Certificate III in Plumbing from the Plumbing and Services Training Package (CPC32408).

The assessment for motor mechanic is undertaken using the following competency groups:



Common units

Some competency units covering general or common skills will be assessed concurrently within the competency groups.

Employability skills

The following skills are also considered: Teamwork, Communication, Problem Solving, Planning & Organising, Learning, Technology, Self-management, and Initiative & Enterprise.

Competency groups

The following is a breakdown of the competency groups included in the profile in Figure 1. Applicants must be able to demonstrate skills and knowledge covered in Competency Groups 1 – 6 PLUS the skills and knowledge covered in either roof plumbing OR gas fitting.

Common units

The following units of competency are embedded in this group for assessment purposes.

- CPCPCM2001A Work effectively in plumbing and services sector
- CPCPCM2002A Carry out interactive workplace communication
- CPCPCM2003A Carry out OHS requirements
- CPCPCM2004A Read plans and calculate plumbing quantities
- CPCPCM2005A Handle and store plumbing materials
- CPCPCM2006A Use plumbing hand and power tools
- CPCPCM2010A Mark out materials
- CPCPCM2011A Apply first aid in the workplace
- CPCPCM2008A Cut and join sheet metal
- CPCPCM2009A Cut using oxy-LPG-acetylene equipment
- CPCPCM2015A Work safely on roofs

Competency Group 1: Trenching, concreting and levelling

Be able to prepare, plan, level and concrete a simple concrete form

- CPCPC2014A Carry out simple concreting and rendering.
- BCCCM2010B Install trench support
- CPCPC2007A Carry out levelling

Competency Group 2: Water systems

Be able to install and commission various domestic water supply, treatment and heating systems

- CPCPWT3001A Set out and install water services
- CPCPWT3002A Install and adjust water service controls and devices
- CPCPWT3003A Install and commission water heating systems.
- CPCPWT3005A Install water pump sets.
- CPCPWT3006A Fit off and commission hot and cold water services.

Competency Group 3: Domestic water treatment, drainage and disposal systems

Be able to plan, install and service domestic water treatment, drainage and disposal systems

- CPCPDR2001A Locate and clear blockages
- CPCPDR2002A Install domestic treatment plants
- CPCPDR2004A Install stormwater and sub-soil drainage system
- CPCPDR2005A Drain worksite
- CPCPDR2006A Install pre-fabricated inspection openings and enclosures
- CPCPDR3001A Plan layout of a residential external sanitary drainage system
- CPCPDR3002A Install below ground sanitary drainage systems
- CPCPDR3003A Install on-site disposal systems
- CPCPCM3001A Flash penetrations through roofs and walls
- CPCPWT3008A Install water service

Competency Group 4: Domestic water treatment, drainage and disposal systems

Be able to plan, install and service domestic water treatment, drainage and disposal systems

- CPCPSN3001A Plan layout of a residential sanitary plumbing system
- CPCPSN3002A Install discharge pipes
- CPCPSN3003A Fabricate and install sanitary stacks.
- CPCPSN3004A Install and fit off sanitary fixtures
- CPCPSN3005A Install pre-treatment facilities

Competency Group 5: Irrigation and sprinkler systems

Be able to fabricate, connect and install irrigation, fire and safety sprinkler systems

- CPCPWT3007A Connect irrigation systems from drinking water supply.
- BCPFS3007A Install domestic and residential life safety sprinkler systems

Competency Group 6: Electric and gas welding

Be able to bond materials using fusion, Electric arc and gas welding.

- CPCPCM3002A Weld plastic pipe using fusion method
- CPCPCM2012A Weld using oxy-acetylene equipment
- CPCPCM2013A Weld using arc welding equipment

Applicants are asked to select one competency group from either

Roofing fabrication and installation **OR** Gas services and operations.

Competency Group 7a: Roofing fabrication and installation

Perform roofing fabrication and installation services and operations

- CPCPRF2002A Select and install roof sheeting and wall cladding
- CPCPRF2003A Collect and store roof water
- CPCPRF3001A Receive roofing materials
- CPCPRF3002A Fabricate and install roof drainage components.
- CPCPRF3003A Fabricate and install external flashings
- CPCPRF3004A Install roof components
- CPCPRF3006A Install composite roof systems
- CPCPRF3005A Install roof coverings to curved roof structures

OR

Competency Group 7b: Gas services and operations

Be able to perform gas services and operations

- CPCPGS3001A Install gas piping system
- CPCPGS3002A Size consumer gas piping systems
- CPCPGS3003A Install and commission Type A gas appliances.
- CPCPGS3004A Install LP gas cylinders of aggregate storage capacity up to 500 litres.
- CPCPGS3006A Install LP gas systems in caravans, mobile homes, watercraft and mobile work places.
- CPCPGS3007A Install gas detection devices.
- CPCPGS3008A Install gas pressure control equipment
- CPCPGS3009A Install Type A gas appliance flues
- CPCPGS3011A Purge consumer piping
- CPCPGS3013A Disconnect and reconnect Type A gas appliances.
- CPCPGS3014A Calculate and install natural ventilation for Type A gas appliances

Assessment outcome

If you **successfully** complete the assessment process you will receive the following:

- an assessment outcome letter from VETASSESS that states you meet the pre-migration skills requirement; this letter may be submitted to DIAC for skilled migration purposes.
- an **Offshore Technical Skills Record (OTSR)** that lists the units of competency in which you are assessed as having the required technical skills; this shows you are eligible to gain provisional registration/licensing in your trade.

If you are **unsuccessful** in the assessment process you will be issued:

- a **Record of Assessment** that lists units of competency you have successfully achieved and those that were not achieved.

Offshore Technical Skills Record

The Offshore Technical Skills Record (OTSR) is a new form of skills documentation that is issued by VETASSESS on successful completion of the technical component of the relevant units of competency or qualification. It lists the technical skills demonstrated in the practical assessment and the gap in the Australian skills or knowledge component which needs to be bridged to meet the full standard.

The regulators have agreed to provide a provisional (restricted) registration/licence against the OTSR to allow applicants to work under supervision, once they arrive in Australia, while they complete the 'Australian content' component of each unit and undertake the required work experience.

Registered Training Organisations (RTOs) including TAFE Colleges will view the OTSR as evidence of recognition of prior learning contributing to a statement of attainment or qualification. Some RTOs in each State and/or Territory will offer the required gap training to meet the qualification and licensing requirements.

Licensing Information

A licence, registration or certification is required in all states and territories for this occupation. For further information regarding any licensing requirements refer to the Licence Matrix on the VETASSESS website or **www.immi.gov.au/asri** and **www.licencerecognition.gov.au**

The OTSR entitles the holder to obtain 'provisional' licensing or registration subject to other non-skills requirements. To obtain a full licence work experience in Australia and completion of the required Australian content gap training is required.

Further Information

If you would like detailed information about the units of competency that make up this qualification please refer to the National Training Information Service (NTIS) website: **www.ntis.gov.au/**

